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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-04-11-28 **Date: 25/04/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drain at Kote Bheedhi Near Venugopal Swamy Temple in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.G.Muniraju, No:54, 4th Cross, 4th Main, Kote Street, Yelahanka, Bangalore-560064.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/31/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-03-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	28/03/2019	25/04/2019	150.93 X 149.90 X 151.47	22625	8.444	532.5	23.5	22.9
2	Drain Bottom Slab Concrete	M20	28/03/2019	25/04/2019	150.81 X 149.13 X 149.78	22490	8.879	498.7	22.2	
3	Drain Bottom Slab Concrete	M20	28/03/2019	25/04/2019	151.04 X 149.84 X 150.29	22632	8.048	521.4	23.0	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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AE-2 AEE

AE-02

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-04-11-28 **Date: 25/04/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Drain at Kote Bheedhi Near Venugopal Swamy Temple in Ward No-02 of Yelahanka Sub Division.

Agency : Sri.G.Muniraju, No:54, 4th Cross, 4th Main, Kote Street, Yelahanka, Bangalore-560064.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/31/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-03-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/04/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	28/03/2019	25/04/2019	149.52 X 149.84 X 151.43	22403	8.444	536.3	23.9	23.6
2	Drain Bottom Slab Concrete	M20	28/03/2019	25/04/2019	151.25 X 149.15 X 150.54	22559	8.879	516.2	22.9	
3	Drain Bottom Slab Concrete	M20	28/03/2019	25/04/2019	149.52 X 149.53 X 149.71	22359	8.068	536.2	24.0	

Note:
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Authorized Signatory
Technical Manager

CIVIL Pro BANGALORE Sig..... Date.....

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-04-11-28** **Date: 29/04/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drain at Kote Bheedhi Near Venugopal Swamy Temple in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.G.Muniraju, No:54, 4th Cross, 4th Main, Kote Street, Yelahanka, Bangalore-560064.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/31/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	01/04/2019	29/04/2019	151.71 X 150.35 X 150.97	22810	8.444	538.4	23.6	23.4
2	Drain Bottom Slab Concrete	M20	01/04/2019	29/04/2019	149.22 X 150.51 X 150.65	22460	8.879	514.7	22.9	
3	Drain Bottom Slab Concrete	M20	01/04/2019	29/04/2019	150.04 X 151.62 X 149.24	22750	9.048	540.3	23.8	

Note:
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-04-11-28 **Date: 15/04/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Drain at Kote Bheedhi Near Venugopal Swamy Temple in Ward No-02 of Yelahanka Sub Division.

Agency : Sri.G.Muniraju, No:54, 4th Cross, 4th Main, Kote Street, Yelahanka, Bangalore-560064.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/31/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-04-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	08/04/2019	15/04/2019	151.57 X 150.93 X 151.11	22877	8.665	418.1	18.3	18.4
2	Cement Concrete Pavement	M20	08/04/2019	15/04/2019	150.18 X 149.14 X 150.06	22398	8.419	418.7	18.7	
3	Cement Concrete Pavement	M20	08/04/2019	15/04/2019	151.44 X 149.18 X 151.08	22592	8.750	411.9	18.2	

Note:

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Authorized Signatory
Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-04-11-28**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drain at Kote Bheedhi Near Venugopal Swamy Temple in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.G.Muniraju, No:54, 4th Cross, 4th Main, Kote Street, Yelahanka, Bangalore-560064.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/31/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-19
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date: 15/04/2019

Date of test : 15/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	08/04/2019	15/04/2019	150.29 X 151.39 X 151.93	22752	8.665	426.4	18.7	18.5
2	Cement Concrete Pavement	M20	08/04/2019	15/04/2019	150.04 X 149.58 X 149.39	22443	8.419	410.3	18.3	
3	Cement Concrete Pavement	M20	08/04/2019	15/04/2019	151.29 X 151.71 X 149.33	22952	8.750	426.4	18.6	

Note:
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Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-04-11-28** **Date: 06/05/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drain at Kote Bheedhi Near Venugopal Swamy Temple in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.G.Muniraju, No:54, 4th Cross, 4th Main, Kote Street, Yelahanka, Bangalore-560064.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/31/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-19
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	08/04/2019	06/05/2019	150.52 X 151.20 X 150.04	22759	8.444	533.8	23.5	23.1
2	Cement Concrete Pavement	M20	08/04/2019	06/05/2019	150.25 X 151.74 X 150.60	22799	8.879	504.7	22.1	
3	Cement Concrete Pavement	M20	08/04/2019	06/05/2019	149.22 X 151.93 X 150.78	22672	9.348	540.0	23.8	

Note:
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-04-11-28 **Date: 16/04/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Drain at Kote Bheedhi Near Venugopal Swamy Temple in Ward No-02 of Yelahanka Sub Division.

Agency : Sri.G.Muniraju, No:54, 4th Cross, 4th Main, Kote Street, Yelahanka, Bangalore-560064.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/31/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-04-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	09/04/2019	16/04/2019	150.41 X 149.51 X 151.76	22488	8.665	422.0	18.8	18.7
2	Cement Concrete Pavement	M20	09/04/2019	16/04/2019	149.58 X 149.43 X 149.44	22351	8.419	421.2	18.8	
3	Cement Concrete Pavement	M20	09/04/2019	16/04/2019	151.05 X 149.56 X 149.44	22591	8.750	419.4	18.6	

Note:
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AE-V / A.E.E / AE-02

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL PRO BANGALORE Sig..... Date.....

Page 1/1
****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-04-11-28 **Date: 17/04/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Drain at Kote Bheedhi Near Venugopal Swamy Temple in Ward No-02 of Yelahanka Sub Division.

Agency : Sri.G.Muniraju, No:54, 4th Cross, 4th Main, Kote Street, Yelahanka, Bangalore-560064.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/31/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-04-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date of test : 17/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	10/04/2019	17/04/2019	149.66 X 151.46 X 151.27	22667	8.665	427.7	18.9	18.7
2	Cement Concrete Pavement	M20	10/04/2019	17/04/2019	151.64 X 149.76 X 150.83	22710	8.419	424.0	18.7	
3	Cement Concrete Pavement	M20	10/04/2019	17/04/2019	149.87 X 150.90 X 149.44	22615	8.750	423.0	18.7	

Note:
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AE-2 A.E.E AE-II

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R. Rudraprasad

R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL Pro Sig..... Date..... BANGALORE

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-04-11-28** **Date: 19-03-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drain at Kote Bheedhi Near Venugopal Swamy Temple in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.G.Muniraju, No:54, 4th Cross, 4th Main, Kote Street, Yelahanka, Bangalore-560064.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/31/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-03-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	16-03-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.22	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.6	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

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AE-2 A.E.E

AE-02

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-04-11-28** **Date: 19-03-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drain at Kote Bheedhi Near Venugopal Swamy Temple in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.G.Muniraju, No:54, 4th Cross, 4th Main, Kote Street, Yelahanka, Bangalore-560064.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/31/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	15-03-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-03-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	489	489	3.3	96.7	90-100
3	20 mm	4778	5267	35.1	64.9	30-70
4	10 mm	7116	12383	82.6	17.4	10-35
5	4.75 mm	2114	14497	96.6	3.4	0-5
6	Pan	503	15000	100.0	0	---

AE-2 A.E.E

AE-01

CIVIL Pro Sig..... Date..... BANGALORE

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-04-11-28** **Date: 19-03-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drain at Kote Bheedhi Near Venugopal Swamy Temple in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.G.Muniraju, No:54, 4th Cross, 4th Main, Kote Street, Yelahanka, Bangalore-560064.
Customer Reference	:	EE(YNK.D)E-PMT-19/W.O/31/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-03-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-03-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	425	425	8.5	91.5	90-100
3	10 mm	2344	2769	55.4	44.6	25-55
4	4.75 mm	1895	4664	93.3	6.7	0-10
5	Pan	336	5000	100	0	–

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AE-02

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2019-04-11-28** **Date: 19-03-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drain at Kote Bheedhi Near Venugopal Swamy Temple in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.G.Muniraju, No:54, 4th Cross, 4th Main, Kote Street, Yelahanka, Bangalore-560064.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/31/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-03-19
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	15-03-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	172	193	19.3	80.7	60-95	75-100	85-100	95-100
4	1.18 mm	173	366	36.6	63.4	30-70	55-90	75-100	90-100
5	600 micron	203	569	56.9	43.1	15-34	35-59	60-79	80-100
6	300 micron	216	785	78.5	21.5	5-20	8-30	12-40	15-50
7	150 micron	129	914	91.4	8.6	0-10	0-10	0-10	0-15
8	Pan	86	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-04-11-28** **Date: 19-03-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drain at Kote Bheedhi Near Venugopal Swamy Temple in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.G.Muniraju, No:54, 4th Cross, 4th Main, Kote Street, Yelahanka, Bangalore-560064.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/31/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-03-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	18-03-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

Note:

The results pertain to the samples received and tested.
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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-04-11-28

Date: 04/04/2019

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Drain at Kote Bheedhi Near Venugopal Swamy Temple in Ward No-02 of Yelahanka Sub Division.

Agency : Sri.G.Muniraju, No:54, 4th Cross, 4th Main, Kote Street, Yelahanka, Bangalore-560064.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/31/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-03-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	28/03/2019	04/04/2019	151.29 X 150.27 X 149.81	22734	8.665	425.8	18.7	18.6
2	Drain Bottom Slab Concrete	M20	28/03/2019	04/04/2019	150.98 X 151.23 X 150.76	22832	8.419	427.0	18.7	
3	Drain Bottom Slab Concrete	M20	28/03/2019	04/04/2019	150.75 X 149.35 X 151.86	22515	8.750	416.5	18.5	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-04-11-28

Date: 04/04/2019

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Drain at Kote Bheedhi Near Venugopal Swamy Temple in Ward No-02 of Yelahanka Sub Division.

Agency : Sri.G.Muniraju, No:54, 4th Cross, 4th Main, Kote Street, Yelahanka, Bangalore-560064.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/31/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-03-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date of test : 04/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	28/03/2019	04/04/2019	151.59 X 151.76 X 150.26	23005	8.665	432.7	18.8	18.8
2	Drain Bottom Slab Concrete	M20	28/03/2019	04/04/2019	151.94 X 149.07 X 151.89	22649	8.419	426.5	18.8	
3	Drain Bottom Slab Concrete	M20	28/03/2019	04/04/2019	150.35 X 151.57 X 150.69	22788	8.750	428.2	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/04/2019

Lab ID	:	CP-2019-04-11-28
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Drain at Kote Bheedhi Near Venugopal Swamy Temple in Ward No-02 of Yelahanka Sub Division.
Agency	:	Sri.G.Muniraju, No:54, 4th Cross, 4th Main, Kote Street, Yelahanka, Bangalore-560064.
Customer's Reference	:	EE(YNK.D)E-PMT-19/W.O/31/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	01/04/2019	08/04/2019	150.83 X 151.95 X 151.03	22919	8.665	418.3	18.3	18.5
2	Drain Bottom Slab Concrete	M20	01/04/2019	08/04/2019	151.59 X 151.64 X 149.80	22989	8.419	426.1	18.5	
3	Drain Bottom Slab Concrete	M20	01/04/2019	08/04/2019	151.13 X 149.63 X 151.06	22613	8.750	420.3	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-04-11-28 **Date: 09/04/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Construction of Drain at Kote Bheedhi Near Venugopal Swamy Temple in Ward No-02 of Yelahanka Sub Division.

Agency : Sri.G.Muniraju, No:54, 4th Cross, 4th Main, Kote Street, Yelahanka, Bangalore-560064.

Customer's Reference : EE(YNK.D)E-PMT-19/W.O/31/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-04-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	02/04/2019	09/04/2019	149.23 X 151.94 X 150.83	22673	8.665	427.4	18.8	18.6
2	Drain Bottom Slab Concrete	M20	02/04/2019	09/04/2019	151.73 X 149.25 X 149.97	22646	8.419	416.5	18.4	
3	Drain Bottom Slab Concrete	M20	02/04/2019	09/04/2019	151.75 X 150.19 X 149.56	22792	8.750	423.7	18.6	

Note:

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